

In reference to claims rejections, Claim 1 has been amended extensively above to better distinguish over the art of record.

With regard to Williams 2,330,938 in particular, claim 1 now calls for "different and independently optimized expansion angles" and a partition "substantially completely surrounding the periphery of the centrifugal impeller." Only with this combination of elements can a single inlet impeller efficiently supply two or more different flow systems with different system pressures. Williams, '938, employs width variations only in his scroll to adapt to different flow system pressures. Williams also teaches a specific location for his partition with respect to his impeller backplate. It is respectfully submitted that Williams neither anticipates, nor renders it obvious, that the combination of partition design and placement and individually optimized scroll expansion is necessary for the most efficient use of a single impeller to supply two or more different flow systems with different system pressures.

Gage, 244,993, discloses a double inlet impeller and is not deemed relevant.

Japanese, 61-347899, is directed to noise reduction and does not address multiple flow systems with differing system pressures. The partition in this patent does not encircle the impeller.

Japanese, 58-101297 discloses a double inlet fan and is not deemed relevant. The two housings are merely joined for low cost assembly.

Swiss; 132,105, discloses two discrete impeller sections which share a common inlet. There is no discussion regarding different scroll expansions.

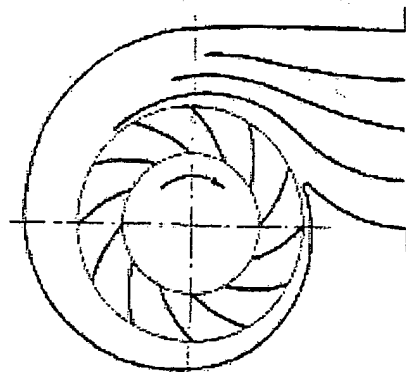
This application is now deemed to be in condition for allowance and such action is earnestly solicited.

A two-month extension is requested and our check in the amount of \$205.00 is enclosed.

Respectfully submitted,

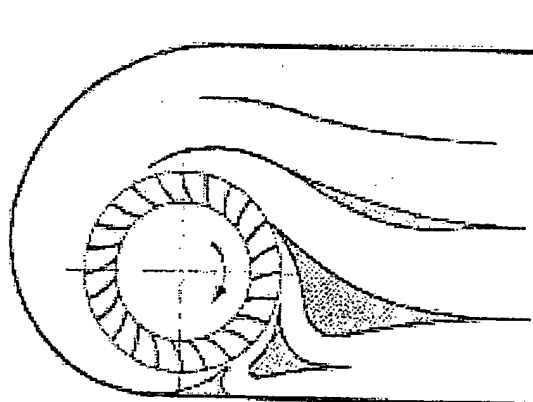
A handwritten signature in black ink, appearing to read "Russel H. Marvin".

Russel H. Marvin
CTO



1x
≅ wheel
diameter

Figure 1a (Prior Art)
Guide vanes in diffuser discharge



≅ 2x wheel
diameter

Figure 1b (Prior Art)
High aspect ratio discharge

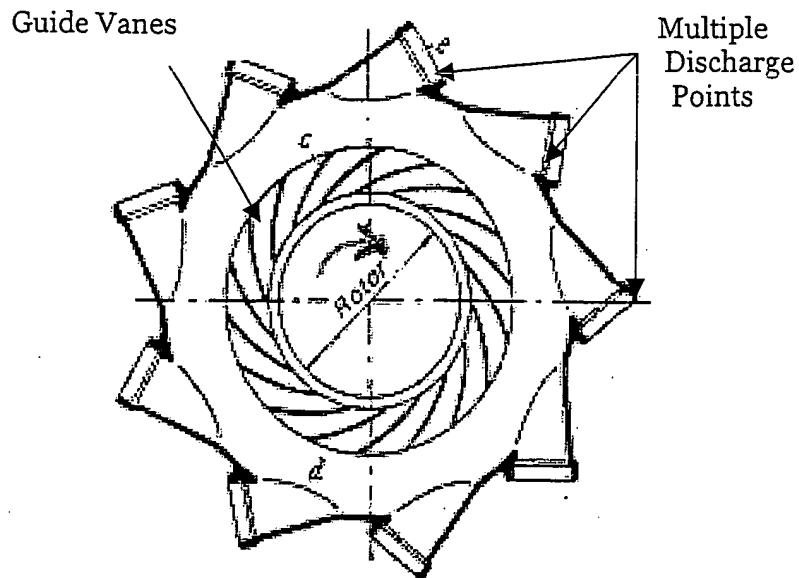


Figure 2b (Prior Art)
Vane diffuser w/ multiple discharges

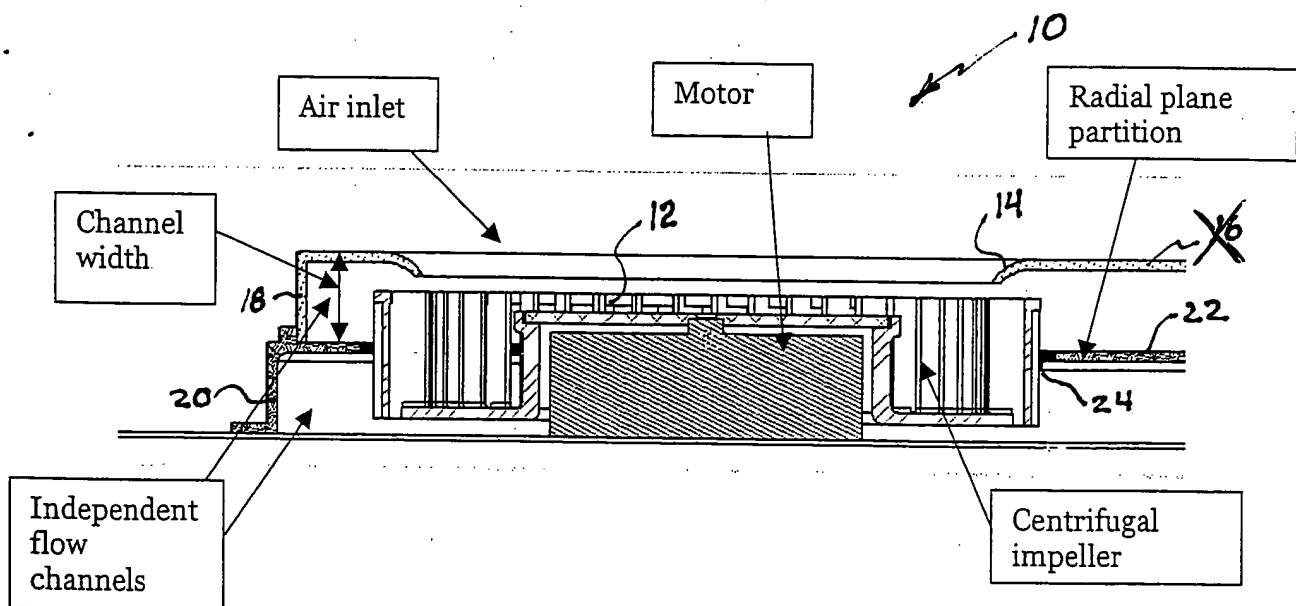


Figure 3
New design approach